
LD 32: Network and Peripheral Equipment Diagnostic

LD 32 performs checks and maintenance functions on network and Peripheral Signaling equipment. LD 32 will allow commands to be used for XTD cards. The STAT command will produce an output which has XTD, LDC or LGD appended where required.

On an Option 11 system, this program can be used to:

- get the status of peripheral equipment cards and units
- enable and disable peripheral equipment cards and units
- test message waiting lamps on 500/2500 telephone sets
- print set and card IDs on superloops
- convert packed TNs in hex to the card and unit format

On systems other than Option 11, this program is used to:

- get the status of Peripheral Signaling (PS), Controller and network cards
- get the status of PE shelves cards and units
- disable and enable PS, Controller and network cards
- disable and enable PE shelves, cards and units
- test message waiting lamps on 500/2500 sets
- list TNs of 500/2500 sets with faulty message waiting lamps on specified shelf (not applicable from X11 Release 5.24 and later).
- test Message Waiting Lamps (MWL) on 2500 sets during midnight routines (Release 8 and later)

- print set and card IDs on superloops
- convert packed TNs in hex to the loop, shelf, card, unit format

Note 1: Disabled DID trunks are placed in the answer state while disabled.

Note 2: If Recorded Telephone Dictation (RTDT) cards are to be software enabled or disabled, the Out-of-Service (OS) lead should be connected to ground. On completion of the task, ground can be removed.

Note 3: Card ID information is presented as follows:

CCCCCCCC-RRSSSS

Where:

CCCCCCCC = is the order code

RR = is the release number

SSSS = is the serial number

Note 4: After making any changes to the route data block, IPE TRUNK CARDS MUST BE DOWNLOADED by issuing the ENLC l s c command.

Note 5: When getting the status of a card relating to a trunk error (STAT), the term RVSD may appear with the trunk information. RVSD indicates that the software detected a reversed wired trunk for that unit.

Overlay 32 Linkage

With Release 19 and later software, Overlay programs 10, 11, 20 and 32 are linked, thus eliminating the need to exit one Overlay and enter another. Once one of the aforementioned Overlays has been loaded, it is possible to add, print and obtain the status of a set without having to exit one Overlay and load another.

Input processing has also been enhanced. Prompts ending with a colon (:) allow the user to enter either:

- 1 a question mark (?) followed by a carriage return (<cr>)
This entry will present you with a list of valid responses to that prompt.
- 2 An abbreviated response
The system responds to this entry with the nearest match. If there is more than one possible match, the system responds with SCH0099, the input followed by a question mark, and a list of possible responses. The user can then enter a valid response.

Using Enable/Disable commands

All units on a loop go into maintenance busy mode when disabled using the DISL command. The shelves on a loop must be individually re-enabled via the ENLS command. Any telephones that were in lockout mode show as idle, then go into lockout mode again 30 seconds after any unit on the shelf requests dial tone.

On Option 11 systems, the DISL and ENLL commands are not available. Instead, use the DISS, ENLC, DISC and ENLS commands as described below.

When enabling a network loop serving ISDL cards, the ISDL cards must be individually disabled then re-enabled to ensure that service is restored to digital telephones. Service may also be restored to digital telephones by disconnecting, and then reconnecting the telephone's line cord.

Note 1: When the Trunk Failure Monitor (TFM) package is enabled, a failed trunk is displayed as BUSY. The enable/disable command does not enable or disable the failed trunk unit (it stays in the BUSY state).

Note 2: When the French Type Approval package (FRTA 197) is enabled then CO trunk units are not busied when they are disabled.

Basic commands

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Basic commands

The following commands are applicable to all machines, except Option 11 systems. See the list of Option 11 commands for further information.

CDSP	Clear the maintenance display on active CPU to 00 or blank
CMIN	Clear the minor lamp on a system basis
CMIN ALL	Clear minor alarm indication on all attendant consoles
CMIN c	Clear minor alarm indication on attendant consoles for customer c (not applicable for Release 22)
CONV tn	Convert packed TN (in hex) to loop, shelf, card and unit format
CONV l s c u	Convert loop, shelf, card and unit format to packed TN (in hex)
CPWD l s c u	Clear directory password for M3000 set
DISC l s c	Disable specified DTR/MFR card
DISI l s c	Disable specified card when it is idle
DISL loop	Disable network loop
DISR l s c u	Disable specified DTR/MFR card or unit
DISN loop	Disable network card containing specified loop
DISS l s	Disable specified shelf
DISU l s c u	Disable specified unit
DSCT l	Disable automatic background continuity tests for superloop
DSNW loop	Disable network card containing specified loop

DSPS x	Disable Peripheral Signaling card x
DSXP x	Disable controller x and all connected cards
END	Abort current test
ENLC l s c	Enable and reset specified DTR/MFR card
ENLG x	Enable group x
ENLL loop	Enable network loop
ENLN loop	Enable network card with specified loop
ENLR l s c u	Enable specified DTR/MFR card or unit.
ENLS l s	Enable specified shelf
ENLU l s c u	Enable specified unit
ENNW loop	Enable network card with specified loop
ENPS x	Enable PS card x and associated loops
LBSY l s	List TNs of all busy units on specified shelf
LDIS l s	List TNs of all disabled units on specified shelf
LIDL l s	List TNs of all idle units on specified shelf
LLBD l s	List TNs of 500/2500 sets with defective MWLs
LMNT l s	List TNs of all maintenance busy units on specified shelf
MFR l s c u	Test specified MFR card or unit.
MFR l	Test all MFR units on loop l.
MFR <cr>	Test all MFR units
PBXH	Message Waiting lamp maintenance
PBXT ALL	Test all Message Waiting lamps
PBXT l (s c u)	Test Message Waiting lamps on loop (or shelf or card or unit)
SDLC l s c	Get status of specified ISDLC card
SDTR l s c u	List status of specified DTR/MFR card or unit.
SDTR <cr>	List the TN of all disabled DTR/MFR units
STAT	Get status of all configured loops in system
STAT (loop)	Give status of one or all loops
STAT l s	Get idle, busy or disabled status of units on specified shelf
STAT l s c	Get status of specified card
STAT l s c u	Get status of specified unit
STAT NWK loop	Check status of network card with specified loop
STAT PER x	Get status of PS card x
TRK l s c u	Seize specified trunk for outpulsing

Option 11 commands

CDSP	Clear the maintenance display on active CPU to 00 or blank
CMIN ALL	Clear minor alarm indication on all attendant consoles
CMIN c	Clear minor alarm indication on attendant consoles for customer c
CONV tn	Convert packed TN (in hex) to c u
CONV c u	Convert c u to packed TN (in hex)
CPWD c u	Clear directory password for M3000 set
DISC card	Disable specified DTR/MFR card
DISI card	Disable specified card when it is idle
DISR c u	Disable specified DTR/MFR card or unit
DISS 0	Disable Base module
DISS 1	Disable Expansion module
DISU c u	Disable specified unit
END	Abort current test
ENLC card	Enable and reset specified DTR/MFR card
ENLR c u	Enable specified DTR/MFR card or unit.
ENLS 0	Enable Base module
ENLS 1	Enable Expansion module
ENLU c u	Enable specified unit
IDC card	Print card ID
IDU c u	Print set ID
LBSY m	List TNs of all busy units in specified module
LDIS m	List TNs of all disabled units in specified module
LIDL m	List TNs of all idle units in specified module
LMNT m	List TNs of all maintenance busy units in specified module
MFR c u	Test specified MFR card or unit.
MFR c	Test MFR units on card c
PBXT c (u), ALL	Test message waiting lamps
SDTR c u	List status of specified DTR/MFR card or unit.
STAT (card)	Get status of specified or all cards
STAT c u	Get status of specified unit
TRK c u	Seize specified trunk for outpulsing

Superloop commands

Note: The Loop level commands are not supported for Option 11 and 11C.

DISL sl	Disable specified superloop
DSCT sl	Disable automatic background continuity tests for a superloop
DSXP x	Disable Controller x and all associated PE cards
ENCT sl	Enable automatic background continuity tests for a superloop
ENLL sl (v)	Enable superloop, download peripheral software version v
ENLL sl	Enable specified Superloop
ENXP x (v)	Enable Controller x and associated PE cards, download software version v
ENXP XPC x (v)	Enable Controller x, do not enable the associated PE cards, download software version v
IDC sl	Print Card ID for superloop and associated Controller(s)
IDC I s c	Print card ID for PE card
IDC sl	Get card id of LCI sl and its associated RCI
IDCS x	Print card ID for all cards on shelf controlled by Controller x
IDU I s c u	Print set ID
LBSY I s	List TNs of all busy units on specified shelf
LDIS I s	List TNs of all disabled units on specified shelf
LIDL I s	List TNs of all idle units on specified shelf
STAT sl	Get status of superloop and separate carriers on that superloop
SUPL (sl)	Print data for one or all superloops
XNTT sl	Do self-test of Network card for specified superloop
XPCT x	Do self-test on Controller x
XPEC (x)	Print data for one or all Controllers

Note: If a trunk unit is controlled by APNSS, the STAT commands will indicate this is an APNSS trunk and will also display the status of the D-channel. The display format remains the same.

ISDN BRI MISP commands

The following commands are available for ISDN Basic Rate Interface Multi-purpose ISDN Signaling Processor (MISP) cards.

DISL loop	Disable MISP loop
DISL (appl) loop	Disable specified application on MISP loop
DISL (appl) loop 1	Disable and remove specified application from MISP loop
DISL (appl) loop REM	Disable and remove specified application from MISP loop
DLIF loop x	Download an UIPE BRI trunk interface data file to an MISP loop
ENLL loop	Enable MISP loop
ENLL loop FDL	Enable specified MISP loop and force download (FDL) basecode
ENLL (appl) loop	Enable specified application on MISP loop
ENLL (appl) loop 1	Enable specified application on MISP loop and force download the application loadware onto the MISP
ENLL (appl) loop FDL	Enable specified application on MISP loop and force download the application loadware onto the MISP
IDC loop	Print MISP card ID
PERR loop	Upload error log for specified MISP
STAT I s	Get idle, busy or disabled status of units on specified shelf
STAT (appl) loop	Get status of MISP loop (and application)

Option 11 BRI MISP commands

DISC card	Disable Multi-purpose ISDN Signaling Processor (MISP) loop
DISC (appl) card	Disable specified application on MISP loop
DISC (appl) card REM	Disable and remove specified application from MISP
DLIF card	Download a UIPE BRI trunk interface data file to MISP card
ENLC card	Enable Multi-purpose ISDN Signaling Processor (MISP) loop
ENLC card FDL	Enable specified MISP card and force download (FDL) basecode
ENLC (appl) card	Enable specified application on MISP card
ENLC (appl) card FDL	Enable specified application on MISP card and force download the application loadware onto the MISP
IDC card	Print MISP card ID
PERR card	Upload error log for specified MISP
STAT (appl) card	Get status of MISP card (and application)

ISDN BRI SILC/UILC commands

The following commands are available for ISDN Basic Rate Interface S/T-Interface line (SILC) or U-Interface line (UILC) cards and the associated Digital Subscriber Loops (DSL).

DIS AUTO s c u	Disable automatic link recovery option of a DSL
DISC s c	Disable S/T-Interface line (SILC) or U-Interface line (UILC) card
DISI s c	Disable specified card when it is idle
DISU s c d	Disable specified Digital Subscriber Loop (DSL) (0-7)
DSRB s c d	Disable Remote Loop Back for specified BRI Trunk DSL
DSTS s c d	Disable Remote Loop Back test mode for specified BRI Trunk DSL
ENL AUTO s c u	Enable automatic link recovery option of a DSL
ENLC s c	Enable S/T-Interface line (SILC) or U-Interface line (UILC) card
ENLU s c d	Enable specified unit Digital Subscriber Loop (DSL) (0-7)
ENRB s c d	Enable Remote Loop Back for specified BRI Trunk DSL
ENTS s c d	Enable Remote Loop Back test mode for the specified BRI Trunk DSL
ESTU s c d	Establish D-channel link for specified DSL
FDIS NCAL < s c DSL#> <conn_ID>	Force disconnect the specified call-independent connection
IDC s c	Print SILC/UILC card ID
PCON s c d	Print configuration and LAPD parameters for specified BRI Trunk DSL
PERR s c	Print protocol log for specified BRI line card
PLOG s c d	Print protocol log for specified BRI Trunk DSL
PMES s c d	Print Layer 3 message log for specified BRI Trunk DSL
PTAB s c d	Upload and print Layer 3 Message configuration IE table for specified BRI Trunk DSL
PTAB s c d <tbl #>	Upload and print specified Layer 3 Message configuration IE table for specified BRI Trunk DSL
PTRF s c d	Print traffic data for specified BRI Trunk DSL
RLBT s c d	Perform Remote Loop Back test on specified BRI Trunk DSL
RLSU s c d	Release D-channel link for specified DSL
STAT s c	Get status of specified SILC or UILC
STAT s c d	Get status of specified Digital Subscriber Loop 0-7
STAT NCAL < s c DSL#>	List all current call-independent connections on a given BRIT DSL

STAT NCAL <l s c DSL#> <conn_ID>

List information pertaining to a specific call-independent connection

Option 11 BRI SILC/UILC commands

DIS AUTO c d	Disable automatic link recovery option of a DSL
DISC card	Disable S/T-Interface line (SILC) or U-Interface line (UILC) card
DISI card	Disable specified card when it is idle
DISU c u	Disable specified Digital Subscriber Loop (DSL) (0-7)
DSRB c d	Disable Remote Loop Back for specified BRI Trunk DSL
DSTS c d	Disable Remote Loop Back test mode for specified BRI Trunk DSL
ENL AUTO c d	Enable automatic link recovery option of a DSL
ENLC card	Enable S/T-Interface line (SILC) or U-Interface line (UILC) card
ENLU c d	Enable specified unit Digital Subscriber Loop (0-7)
ENRB c d	Enable Remote Loop Back for specified BRI Trunk DSL
ENTS c d	Enable Remote Loop Back test mode for the specified BRI Trunk DSL
ESTU c d	Establish D-channel link for specified DSL
FDIS NCAL <c DSL#> <conn_id>	Force disconnect the specified call-independent connection (as defined by its connection ID number)
IDC card	Print SILC/UILC card ID
PCON c d	Print configuration and LAPD parameters for specified DSL
PERR card	Print protocol log for specified card
PLOG c d	Print protocol log for specified BRI Trunk DSL
PMES c d	Print Layer 3 message log for specified BRI Trunk DSL
PTAB c d	Upload and print Layer 3 Message configuration IE table for specified BRI Trunk DSL
PTAB c d <tbl #>	Upload and print specified Layer 3 Message configuration IE table for specified BRI Trunk DSL
PTRF c d	Print traffic data for specified BRI Trunk DSL
RLBT c d	Perform Remote Loop Back test on specified BRI Trunk DSL
RLSU c d	Release D-channel link for specified DSL
STAT card	Get status of specified SILC or UILC
STAT c d	Get status of specified Digital Subscriber Loop (0-7)
STAT NCAL <c DSL#>	List all current call-independent connections on a given BRIT DSL

ISDN BRI BRSC commands

The following commands are available for the ISDN Basic Rate Signaling Concentrator (BRSC) card, available with X11 Release 19 or later.

DISC BRI I s c	Disable the BRSC ISDN BRI application.
DISC (BASE) I s c	Disable specified card.
ENLC (BASE) I s c (FDL/NST)	Enable specified card.
ENLC BRI I s c (FDL)	Enable the BRSC ISDN BRI application.
IDC I s c	Print BRSC card and loadware version.
STAT I s c	Get status of specified card.

Alphabetical list of commands

Command	Description	Pack/Rel
CDSP	Clear the maintenance display on active CPU to 00 or blank.	basic-1
CMIN	Clear the minor lamp on a system basis.	alarm_filter-22
CMIN ALL	Clear minor alarm indication on all attendant consoles.	basic-1
CMIN c	Clear minor alarm indication on attendant consoles for customer c. (not applicable for Release 22)	basic-1
CONV tn, CONV c u	Convert packed TN (in hex) to l s c u, or vice versa. (Option 11)	xpe-15
CONV tn, CONV l s c u	Convert packed TN (in hex) to l s c u, or vice versa. The command format is: • CONV tn - convert packed TN • CONV l s c u - convert unpacked TN	xpe-15
CPWD c u	Clear directory password for M3000 set. (Option 11)	basic-1
CPWD l s c u	Clear directory password for M3000 set. Allows the M3000 Directory password of the specified M3000 set to be cleared. This allows a user to access the M3000 Directory if the password has been forgotten or if the user wants to change the current password.	basic-1
DIS AUTO c d	Disable automatic link recovery option of a DSL (Option 11)	bri-18
DIS AUTO l s c u	Disable automatic link recovery option of a DSL.	bri-18
DISC (app) card	Disable application on Multi-purpose ISDN Signaling Processor (MISP). (Option 11). Where: appl =BRIL (Basic Rate Interface Line), BRIT (Basic Rate Interface Trunk), or BRIE (UIPE Basic Rate Interface Trunk)	bri-18

DISC (appl) card REM	Disable and remove application from Multi-purpose ISDN Signaling Processor (MISP). (Option 11) Where: appl =BRIL (Basic Rate Interface Line), BRIT (Basic Rate Interface Trunk), or BRIE (UIPE Basic Rate Interface Trunk)	bri-18
DISC (BASE) l s c	Disable specified BRSC card. With X11 Release 19 and later, this command is also used to disable the ISDN Basic Rate Interface Signaling Concentrator (BRSC) card. Where: • BASE = Disable only the basecode. If not specified, both the basecode and application are disabled. The application is disabled first unless BASE is entered. • l = loop • s = shelf • c = card The card faceplate LED is turned on to indicate the card is disabled, and the IPC channel is eliminated. The “.” prompt is given when the process is complete.	bri-18
DISC BRI l s c	Disable the BRSC ISDN BRI application. This command is available with X11 Release 19 and later. Where: • BRI = the BRSC ISDN BRI application • l = loop • s = shelf • c = card All active and transient ISDN BRI calls are dropped, and all signaling and packet channels are torn down. The DSL software state remains the same, but the ISDN BRI line cards receive a disable message.	bri-18

DISC card	Disable specified DTR/MFR card. (Option 11) This command is also used for Multi-purpose ISDN Signaling Processor (MISP). If BRI reference clock source is configured on this SILC the user will be prompted with: CLOCK SOURCE ON DSL #, PROCEED? , where # = unit 0-7 <i>For Option 11C:</i> DISC 0 disables all configured units on card 0	basic-1
DISC I s c	Disable specified DTR/MFR card. If BRI reference clock source is configured on this SILC the user will be prompted with: CLOCK SOURCE ON DSL #, PROCEED? , where # = unit 0-7	basic-1
DISI card	Disable specified card when it is idle. (Option 11) If BRI reference clock source is configured on this SILC the user will be prompted with: CLOCK SOURCE ON DSL #, PROCEED? , where # = unit 0-7	basic-1
DISI I s c	Disable specified card when it is idle. If BRI reference clock source is configured on this SILC the user will be prompted with: CLOCK SOURCE ON DSL #, PROCEED? , where # = unit 0-7	basic-1
DISL (appl) loop	Disable application on MISP loop. Where appl = • BRIL (Basic Rate Interface Line), or • BRIT (Basic Rate Interface Trunk) •	bri-18
DISL (appl) loop 1	Disable MISP loop. Where: appl =BRIL (Basic Rate Interface Line), BRIT (Basic Rate Interface Trunk), or BRIE (UIPE Basic Rate Interface Trunk). Applicable if SUPP package 131 is not equipped.	bri-18

DISL (appl) loop (FDL)	Disable MISP application and loop. Where: • appl = optional application name (BRIL) • loop = loop number • FDL = force download the application With X11 Release 18, entering 1 rather than FDL force downloads the application.	bri-18
DISL (appl) loop REM	Disable and remove application from Multi-purpose ISDN Signaling Processor (MISP). Applicable if SUPP package 131 is equipped.	bri-18
DISL loop	Disable network loop. See “Using the Enable/Disable commands” in the introduction. This command is also used for superloops and MISPs.	basic-1
DISL sl	Disable specified superloop. Active calls on the superloop will be disconnected and line transfer will occur at the remote end.	basic-21
DISN loop	Disable network card containing specified loop, where “loop” is the number of the even or odd loop. Not applicable to superloops.	
DISR c u	Disable specified DTR/MFR card or unit. The LED should be lit on the XMFR card in response to this command.	basic-21
DISR l s c u	Disable specified DTR/MFR card or unit. The LED should be lit on the XMFR card in response to this command.	basic-21
DISS l s	Disables specified shelf. See “Using the Enable/Disable commands” in the introduction.	basic-1
DISS m	Disables specified module. Where: m = 0 for Main or m = 1 for Expansion module. (Option 11) See “Using the Enable/Disable commands” in the introduction.	basic-1
DISU BRI l s c	Disable ISDN BRI BRSC card.	brit-19

DISU c d	Disable specified Digital Subscriber Loop (0-7). (Option 11). bri-18 If BRI reference clock source is configured on the DSL, the user will be prompted with: CLOCK SOURCE ON THIS DSL, PROCEED?
DISU c u	Disables specified unit. See “Using the Enable/Disable commands” in the introduction. (Option 11) basic-1 <i>For Option 11C:</i> 0-15 may be accepted as input for card 0.
DISU l s c d	Disable specified Digital Subscriber Loop 0-7. bri-18 If BRI reference clock source is configured on the DSL the user will be prompted with: CLOCK SOURCE ON THIS DSL, PROCEED?
DISU l s c u	Disable specified unit. See “Using the Enable/Disable commands” in the introduction. basic-1
DLIF card	Download a UIPE BRI trunk interface data file to MISP card (Option 11). bri-18
DLIF loop x	Download an UIPE BRI trunk interface data file to a MISP loop. The MISP specified must have the BRIT UIPE loadware application. Where x may be: bri-18 • (0) = UIPE SL1 • 1 = ETSI QSIG • 2 = ISO QSIG • . • . • 28 = ETSI QSIG GF • 29 = ISO QSIG GF To achieve a successful download: 1. the MISP basecode must be enabled 2. the specified MISP must have the UIPE BRI trunk loadware configured 3. the interface must be inactive (interpret this to mean that either the UIPE BRI trunk application must be disabled or no DSL of this interface type can be enabled)

DSCT loop	Disable automatic background continuity tests for a superloop.	xpe-15
DSIF L PDL2 I s c	Disables the SAPI 16 interface number for BRSC on I s c for the MPH on loop L.	bri-19
DSIF L PDL2 L1	Disables SAPI 16 interface number for BRIL on Loop L1 for MPH on loop L.	bri-19
DSIF I s c DSL BCH x	Disables the link interface for B-channel x for DSL I s c bch. Where: x = 1–2	bri-19
DSIF I s c DSL DCH x	Disables the link interface number for USID x for the DSL on I s c dch.	bri-19
DSIF loop PDNI Y	Disable the link interface number Y for PDNI on Loop Y (1-3)	bri-19
DSNW loop	Disable network card containing specified loop, where “loop” is the number of the even or odd loop. Not applicable to superloops.	basic-1
DSPS x	Disables Peripheral Signaling (PS) card x and loops serviced by the card. Disabling PS card 0 interrupts service on loops 0 to 15. To re-enable the card, use the ENPS x command. If this fails, a system initialization may be required. Use the disable command with discretion. Disabling a PS card disables up to 16 loops.	basic-1

The following lists the group/PS/loop relationship:

<u>Group</u>	<u>PS</u>	<u>Loops</u>
0	0	0 to 15
0	1	16 to 31
1	2	32 to 47
1	3	48 to 63
2	4	64 to 79
2	5	80 to 95
3	6	96 to 111
3	7	112 to 127
4	8	128 to 143
4	9	144 to 159

LD 32

DSRB c d	Disable Remote Loop Back for specified BRI Trunk DSL (Option 11)	bri-18
DSRB l s c d	Disable Remote Loop Back for specified BRI Trunk DSL	bri-18
DSTS c d	Disable Remote Loop Back test mode for specified BRI Trunk DSL (Option 11)	bri-18
DSTS l s c d	Disable Remote Loop Back test mode for specified BRI Trunk DSL	bri-18
DSXP x	Disable Controller x and all connected cards.	xpe-15
ENCT loop	Enable automatic background continuity tests for loop.	xpe-15
END	Abort current test. Stops outputting. Stops current test.	basic-1
ENIF L PDL2 l s c	Enables the SAPI 16 interface number for BRSC on l s c for MPH on loop L.	bri-19
ENIF l s c DSL BCH x	Enables the link interface for B-channel x for DSL l s c bch. Where: x = 1–2	bri-19
ENIF l s c DSL DCH x	Enables the link interface number for USID x for the DSL on l s c dch.	bri-19
ENIF loop PDNI Y	Enables the link interface number Y for PDNI on Loop Y (1-3).	bri-19
ENL AUTO c d	Enable automatic link recovery option of a DSL (Option 11)	bri-18
ENL AUTO l s c u	Enable automatic link recovery option of a DSL.	bri-18
ENLC (appl) card	Enable specified application on Multi-purpose ISDN Signaling Processor (MISP) card. (Option 11). Where: • appl = optional application name BRIL (Basic Rate Interface Line) or BRIT (Basic Rate Interface Trunk)	bri-18

ENLC (appl) card FDL bri-18

Enable and force download loadware for specified application on Multi-purpose ISDN Signaling Processor (MISP) card. (Option 11). Where appl =

- BRIL (optional application name: Basic Rate Interface Line), or
- BRIT (Basic Rate Interface Trunk)
-

ENLC (BASE) I s c (FDL/NST) brit-19

Enable specified card.

If the card resides on a disabled shelf, the status is output and enable is not performed. If card has been disabled by overload, the overload status entry is cleared.

Used to enable the ISDN Basic Rate Interface Signaling Concentrator (BRSC) card. The command format is shown here. ENLC (BASE) I s c u (FDL/NST)

Where:

- BASE = enable only the BRSC basecode. If not specified, both the basecode and the application will be enabled.
- I = loop
- s = shelf
- c = card
- FDL = force download the basecode
- NST = No self-test

The card faceplate is turned off to indicate the card is enabled, and the IPC channel is built.

ENLC BRI I s c (FDL) brit-19

Enable the BRSC ISDN BRI application. Where:

- BRI = the BRSC ISDN BRI application
- I = loop
- s = shelf
- c = card
- FDL = force download the application

The application is force downloaded if:

- FDL is entered, or
- No application currently exists on the BRSC card, or
- There is a version number mismatch between the applications in the software and on the card.

ENLC card	Enable and reset specified DTR/MFR card. (Option 11) If the card resides on a disabled shelf, the status is output and enable is not performed. If card has been disabled by overload, the overload status entry is cleared. This command is also used for Multi-purpose ISDN Signaling Processor (MISP), S/T-Interface (SILC), and U-Interface (UILC) line cards. For Release 21, this command causes the pack to perform a self test. If the pack self test passes, the LED will blink 3 times. If it fails, the LED will be lit solidly. A XMI message will be issued to indicate that the XMFR pack has powered up. This command can be used to enable a XMFR card. <i>For Options 11C and 11E:</i> ENLC 0 enables all units (0-15) on card 0 if TDS 0 is already enabled. For Slot 0, the TDS must first be enabled by entering the command ENLX 0 in LD 34.	basic-1
ENLC card FDL	Enable Multi-purpose ISDN Signaling Processor (MISP) and force download basecode.(Option 11)	bri-18
ENLC l s c	Enable and reset specified DTR/MFR card. If the card resides on a disabled shelf, the status is output and enable is not performed. If card has been disabled by overload, the overload status entry is cleared. For Release 21, this command causes the pack to perform a self test. If the pack self test passes, the LED will blink 3 times. If it fails, the LED will be lit solidly. A XMI message will be issued to indicate that the XMFR pack has powered up. This command can be used to enable a XMFR card. This command is also used for the S/T-Interface (SILC) and U-Interface (UILC) line cards.	basic-1
ENLG x	Enable group x. Equivalent to two ENPS commands. Refer to DSPS command for the relationships of groups, PS cards and loops.	basic-1

ENLL (appl) loop	Enable specified application on Multi-purpose ISDN Signaling Processor (MISP) loop. Where appl = • BRIL (Basic Rate Interface Line) or • BRIT (Basic Rate Interface Trunk)	bri-18
ENLL (appl) loop (FDL)	Enable MISP application, and loop. Where: • appl = optional application name (BRIL) • loop = loop number • FDL = force download the application For Release 18, entering 1 rather than FDL force downloads the application.	bri-18
ENLL (appl) loop FDL	Enable and force download loadware for specified application on Multi-purpose ISDN Signaling Processor (MISP) loop. Applicable if SUPP package 131 is equipped.	bri-18
ENLL (appl) loop 1	Enable MISP loop. Where: • appl = optional application name (BRIL) • 1 = force downloads the application • Applicable if SUPP package 131 not equipped.	bri-18
ENLL loop	Enable network loop. See "Using the Enable/Disable commands" in the introduction. This command is also used for Multi-purpose ISDN Signaling Processors (MISP).	basic-1
ENLL loop FDL	Enable MISP and force download basecode.	bri-18
ENLL loop (v)	Enable superloop, download peripheral software version v. If version v is not specified, the software downloaded is current (c) or latest (l) version as defined in LD 97.	xpe-15
ENLL sl	Enable specified Superloop. OK is output if the operation is successful.	basic-21
ENLN loop	Enable network card with specified loop, where loop is the even or odd numbered loop on the network card. Not applicable to superloops.	

ENLR c u	Enable the specified DTR/MFR card. (Option 11) Meridian 1 software will issue a message to request XMFR to perform an echo test only when ENLR is issued to enable the XMFR card.	basic-21
ENLR l s c u	Enable the specified DTR/MFR card. Meridian 1 software will issue a message to request XMFR to perform an echo test only when ENLR is issued to enable the XMFR card.	basic-21
ENLS l s	Enable specified shelf. Where: l = loop and s = shelf. If the shelf is disabled by overload, the overload status entry is cleared.	basic-1
ENLS m	Enable the specified module. (Option 11). Where: m = 0 for base module or m = 1 for expansion module. If the module is disabled by overload, the overload status entry is cleared.	basic-1
ENLU c d	Enable Digital Subscriber Loop (0-7) (Option 11)	bri-18
ENLU c u	Enable specified unit. (Option 11) ENLU c u accepts units 0-15 as input. Units can only be enabled if TDS 0 is enabled. <i>For Options 11E and 11C:</i> For Slot 0, the TDS must first be enabled by entering the command ENLX 0 in LD 34.	basic-1
ENLU l s c d	Enable Digital Subscriber Loop (0-7).	bri-18
ENLU l s c u	Enable specified unit. If the unit resides on a disabled shelf or card, the status is output and enable is not performed. If the unit to be enabled is a 500/2500 message waiting telephone, test the unit prior to enabling.	basic-1
ENNW loop	Enable network card with specified loop, where loop is the even or odd numbered loop on the network card. Not applicable to superloops.	basic-1
ENPS x	Enables PS card x and all loops that were enabled at time of last DSPS command. Refer to DSPS command to find the relationships of groups, PS cards and loops.	basic-1

ENRB c d	Enable Remote Loop Back for specified BRI Trunk DSL. (Option 11)	bri-18
ENRB l s c d	Enable Remote Loop Back for specified BRI Trunk DSL.	bri-18
ENTS c d	Enable Remote Loop Back test mode for specified BRI Trunk DSL. (Option 11)	bri-18
ENTS l s c d	Enable Remote Loop Back test mode for specified BRI Trunk DSL.	bri-18
ENXP x (v)	Enable Controller x and associated PE cards, download software version v. Enable all PE cards connected to Controller x and the Controller itself. If version v is not specified, the software downloaded to the Controller is current (c) or latest (l) version as defined in LD 97.	xpe-15
ENXP XPC x (v)	Enable Controller x, do not enable the associated PE cards, download software version v. The cards connected to the Controller are not enabled by this command. If version v is not specified, the software downloaded to the Controller is current (c) or latest (l) version as defined in LD 97.	xpe-15
ESTU c d	Establish D-channel link for the specified Digital Subscriber Loop (0-7). (Option 11)	bri-18
ESTU l s c d	Establish D-channel link for the specified Digital Subscriber Loop (0-7).	bri-18
FDIS NCAL <c DSL#> <conn_id>	Force disconnect the specified call-independent connection (as defined by its connection ID number) Note that the command format for an Option 11C is: STAT NCAL <c 0 0 DSL#><conn_id#>	qsig gf-22
FDIS NCAL <l s c DSL#> <conn_id>	Force disconnect the specified call-independent connection (as defined by its connection ID number)	qsig gf-22

IDC card Print MISP or XPE card ID. (Option 11) bri-18

The MISP card ID output format is:

- CARDID: xxx. . . x
- BASECODE VERSION: xxx. . . x
- BRI LINE/TRUNK VERSION: xxx. . . x
- BOOTCODE VERSION: xxx. . . x

The MISP card ID output format is:

- CARDID: xxx. . . x
- BASECODE VERSION: xxx. . . x
- BRI LINE/TRUNK VERSION: xxx. . . x
- BOOTCODE VERSION: xxx. . . x

IDC l s c Print BRSC card and loadware version. brit-19

This command, with X11 Release 19 and later, queries the BRSC card ID, the basecode, and the application version number. Where: l = loop, s = shelf, and c = card.

Output example:

- BOOTCODE VERSION xx . . . x
- BASECODE VERSION xx . . . x
- BRI APPL VERSION xx . . . x

IDC l s c Print MISP or XPE card ID. bri-18

The MISP card ID output format is:

- CARDID: xxx. . . x
- BASECODE VERSION: xxx. . . x
- BRI LINE/TRUNK VERSION: xxx. . . x
- BOOTCODE VERSION: xxx. . . x

The XPE card ID output format is:

=> XXXX CCCCCC-RRSSS

Where:

- XXXX = card type (i.e., XDTR, XUT, etc.)
- CCCCCC = order code
- RR = release number
- SSSS = is the serial number

IDC l s c d Print ID of Digital Subscriber Loop 0-7. bri-18

IDC sl	<i>For Copper Connections in Release 21:</i> Print Network ID and Controller for a superloop. <i>Output format for superloop card ID:</i> <pre> XNET VERS => xxx RUNNING FROM yyy FW IS SANE CCCCCCCC-RRSSSS XPEC0 VERS => xxx RUNNING FROM yyy FW IS SANE XPECz CCCCCCCC-RRSSSS XPEC1 VERS => xxx RUNNING FROM yyy FW IS SANE XPECz CCCCCCCC-RRSSSS </pre> Where: • xxx = loadware version • yyy = RAM or ROM • z = 2 or 4 • CCCCCCCC = order code • RR = release number • SSSS = is the serial number	xpe-15
IDC sl	<i>For Carrier Connections in Release 21:</i> Get card id of Local Carrier Interface (LCI) superloop and its associated Remote Carrier Interface (RCI). <i>Output format for LCI superloop card ID:</i> <pre> LCI VERS => xxx FW IS SANE aaaaaaaaaaaa </pre> <i>Output format for RCI superloop card ID:</i> <pre> XPEC VERS=>xxx FW IS SANE aaaaaaaaaaaa </pre> Where: • xxx = loadware version • aaaaaaaaaa = contents of ID EEPROM (LCI or RCI)	rem_ipe-21

IDC sl *For Fibre Connections in Release 22:* rem_ipe-22

Print card ID of optical packets and main boards for Fibre superloop and associated Controller(s)

The output format for the superloop card ID including optical packets is:

```
FNET VERS => xxx
```

```
FW IS SANE
```

```
aaaaaaaaaaaaa
```

```
PRIM: pppppppp
```

```
SEC: ssssssss
```

```
XPEC VERS => xxx
```

```
FW IS SANE
```

```
aaaaaaaaaaaaa
```

```
PRIM: pppppppp
```

```
SEC: ssssssss
```

Where:

1. xxx = loadware version
2. aaaaaaaaaaaaa = contents of ID EEPROM (FNET or FPEC)
3. PRIM: pppppppp = contents of ID EEPROM primary packet (if present)
4. SEC: ssssssss = contents of ID EEPROM secondary packet (if present)

IDC l s c Print card ID for PE card. The format is: xpe-15

IDC l s c — print ID of specified line card

The format of the card ID is CCCCCCCC-RRSSSS, where:

- CCCCCCCC = order code
- RR = release number
- SSSS = serial number

For example, a Network Card (NT8D04AA) with a release of 01 and serial number of 00001 will have a card ID with: NT8D04AA-010001

For BRI MISP cards, the output is:

- CARDID: xxx...x
- BASECODE VERSION: xxx...x
- BRI LINE/TRUNK VERSION: xxx...x
- BOOTCODE VERSION: xxx...x

IDCS x	Print card ID for all cards on shelf controlled by Controller x. The card ID for all cards in shelf controlled by Controller x is output. The XPE card ID output format is: => XXXX CCCCCCCC-RRSSSS Where: • XXXX = card type (i.e., XDTR, XUT, etc.) • CCCCCCCC = order code • RR = release number • SSSS = is the serial number	xpe-15
IDU c d	Print set ID for Digital Subscriber Loop d (0-7) (Option 11)	bri-18
IDU l s c d	Print set ID for Digital Subscriber Loop d (0-7)	bri-18
IDU c u	Print set ID (Option 11)	basic-1
IDU l s c u	Print set ID. Print ID applies to the following set types: M2006, M2008, M2016, M2216 and M2616. The output format of the set ID (M2008 for example) is: • ARIES TN: l s c u • TN ID CODE: M2008 • NT CODE: NT2K08WC • COLOR CODE: xx • RLS CODE: xx • SER NUM xxxxxx (X11 Release 18 and later) The color codes are: • 03 is black • 35 is chameleon ash • 93 is dolphin grey	xpe-15
LBSY l s	List TNs of all busy units on specified shelf.	basic-1
LBSY m	List TNs of all busy units in specified module. (Option 11). Where: m = 0 for Base module or 1 for Expansion module.	basic-16
LDIS l s	List TNs of all disabled units on specified shelf.	basic-1
LDIS m	List TNs of all disabled units on specified module. (Option 11). Where: m = 0 for Base module or 1 for Expansion module.	basic-16

LIDL l s	List TNs of all idle units on specified shelf.	basic-1
LIDL m	List TNs of all idle units in specified module. (Option 11). Where: m = 0 for Base module or 1 for Expansion module.	
LLBD l s	Lists TNs of all 500/2500-type units for specified loop and shelf with message waiting lamps seen by the system as defective (not available after Release 5. 24).	basic-1
LMNT l s	List TNs of all maintenance busy units on specified shelf.	basic-1
LMNT m	List TNs of all maintenance busy units on specified module. (Option 11). Where: m = 0 for Base module or m = 1 for Expansion module.	
MFR c	Test all MFR units on card c During the MFR test, faulty MFR/XMFR packs are disabled and MFRxxx error messages are output.	basic-21
MFR c u	Test specified MFR card or unit. During the MFR test, faulty MFR/XMFR packs are disabled and MFRxxx error messages are output.	basic-21
MFR l s c u	Test specified MFR card or unit. During the MFR test, faulty MFR/XMFR packs are disabled and MFRxxx error messages are output.	basic-21
MFR l	Test all MFR units on loop l During the MFR test, faulty MFR/XMFR packs are disabled and MFRxxx error messages are output.	basic-21
MFR <cr>	Test all MFR units During the MFR test, faulty MFR/XMFR packs are disabled and MFRxxx error messages are output.	basic-21
PBXH	Message Waiting lamp maintenance.	basic-1
PBXT (c u), ALL	Tests 500/2500 Message Waiting lamp on specified card or unit. This is required after failed lamp is fixed. (Option 11)	basic-1
PBXT ALL	Test all Message Waiting lamps.	basic-5

PBXT I (s c u)	Tests 500/2500 Message Waiting lamp on specified loop, shelf, card or unit. This is required after failed lamp is fixed.	basic-5
PCON c d	Upload and print configuration and LAPD parameters for specified DSL. (Option 11)	bri-18
PCON I s c d	Upload and print configuration and LAPD parameters for specified DSL. This command requires the specified DSL to be configured for the BRI Trunk Application. See example below: PCON 6 0 0 6 .DSL: 6 0 0 6 LINL PARAM CONFIRM TIME: 0:02:10 INTERFACE: SL-1 OPER MODE: USR T200: 2 T203: 20 N200: 3 N201: 260 K: 1 PROT #: 1	bri-18
PERR card	Upload and print Layer 2 error log for specified SILC, UILC or MISP card. (Option 11)	bri-18
PERR loop	Upload and print Layer 2 error log for specified MISP.	bri-18
PERR I s c	Upload and print Layer 2 error log for specified SILC or UILC. This command requires the specified MISP or line card to be configured for the BRIT Application. If error log is requested for a line card the error log for each DSL is printed. If error log is requested for a MISP the application global log is also printed. Interpretation of error logs: 1st byte is DSL number or "80" for Application log. 2nd byte is number of non-zero logs. If errors were logged the subsequent information is printed for each error type: • 3rd byte is counter type code • 4th byte is "HIGH" byte of count • 5th byte is "LOW" byte of count	bri-18

Examples follow :

PERR 6

.DSL: 6 0 0 6 ERR LOG CONFIRM TIME: 0:02:10

00 00 01 00 06 00 07 00

^ ^ ^ ^

DSL 0 DSL 1 DSL 6 DSL 7 (no errors for all DSLs)

PERR 3

.DSL: 5 0 0 2 ERR LOG CONFIRM TIME: 0:02:10

80 01 4D 00 09

Where:

- 1st byte - 80 - indicates Application global log
- 2nd byte - 01 - is number of error logs
- 3rd byte - 4D - is counter type code
- 4th byte - 00 - is "HIGH" byte count
- 5th byte - 09 - is "LOW" byte counts for all DSLs

PLOG c d	Upload and print protocol log for specified BRI Trunk DSL. (Option 11)	bri-18
----------	---	--------

PLOG l s c d	Upload and print protocol log for specified BRI Trunk DSL. The protocol log keeps record of up to 32 protocol types. Only non-zero counters are uploaded and printed.	bri-18
--------------	--	--------

This command requires the specified MISP or line card to be configured for the BRIT Application. See example below:

PLOG 6 0 0 6

.DSL: 6 0 0 6 PROTOCOL CONFIRM TIME: 0:02:10

17 117 <--Counter 17 shows 117 SABME frames received with incorrect C/R bit

18 141 <--Counter 18 shows 141 supervisory frames received with F=1

19 84 <--Counter 19 shows 84 unsolicited DM responses with F=1

PMES c d	Upload and print Layer 3 message log for specified DSL. (Option 11)	bri-18
----------	--	--------

PMES l s c d	Upload and print Layer 3 message log for specified DSL. This command requires the specified DSL to be configured for the BRI Trunk Application. Each time a valid Layer 3 message is received by the MISP, a counter for that particular message is incremented. The log keeps track of up to 20 message types. Only non-zero items are uploaded and printed. Making trunk calls will create a printable log. In the following example, 2 calls were made: <pre>PMES 6 0 0 6 .DSL: 6 0 0 6 MSG LOG CONFIRM TIME: 0:02:10 ALERT: 2 PROC: 2 CONNECT: 2 DISCONN: 2 REL COP: 2</pre>	bri-18
PTAB c d	Upload and print Layer 3 Message configuration IE table for specified BRI trunk DSL. (Option 11)	bri-18
PTAB l s c d	Upload and print Layer 3 Message configuration IE table for specified BRI trunk DSL. PTAB uploads what was downloaded when the Application was enabled.	bri-18
PTAB c d <tbl #>	Upload and print specified Layer 3 Message configuration IE table for specified BRI trunk DSL. Where: <tbl #> = table number. (Option 11)	bri-18
PTAB l s c d <tbl #>	Upload and print specified Layer 3 Message configuration IE table for specified BRI trunk DSL. PTAB uploads what was downloaded when the Application was enabled. Where: <tbl #> = table number.	bri-18
PTRF c d	Upload and print traffic report for specified BRI Trunk DSL. (Option 11) The following traffic information is output: <pre>CONNECTED NCALLS : Total number of established call-independent connections</pre>	bri-18

PTRF l s c d	Upload and print traffic report for specified BRI Trunk DSL. This command requires the specified DSL to be configured for the BRI Trunk Application. See example below: <pre> PTRF 6 0 0 6 .DSL: 6 0 0 6 TRAFFIC CONFIRM TIME: 0:02:10 PEAK_I_US: 0 <-- Peak link usage (over a 5 second period) for incoming traffic since the last time the traffic data was uploaded. An integer 0 - 100 which represents the percentage of the link capacity used. AVRG_I_US: 0 <-- Average link usage for incoming traffic since the traffic was last uploaded. PEAK_O_US: 0 <-- Peak link usage (over a 5 second period) for outgoing traffic since the last time the traffic data was uploaded. An integer 0 - 100 which represents the percentage of the link capacity used. AVRG_O_US: 0 <-- Average link usage for outgoing traffic since the traffic was last uploaded. TIME: 0 <-- time since last traffic upload query CONNECTED CALL: 2 <-- number of successfully connected trunk calls </pre>	bri-18
RLBT c d	Perform Remote Loop Back Test on specified BRI Trunk DSL. (Option 11)	bri-18
RLBT l s c d	Perform Remote Loop Back Test on specified BRI Trunk DSL.	bri-18
RLSU c d	Release D-channel link for specified Digital Subscriber Loop (0-7). (Option 11)	bri-18
RLSU l s c d	Release D-channel link for specified Digital Subscriber Loop (0-7).	bri-18
RMIF L PDL2 l s c	Disables and removes the SAPI 16 interface number for BRSC on l s c for MPH on loop L.	bri-19
RMIF L PDL2 L1	Disables and removes the SAPI 16 interface number for BRIL on Loop L1 for MPH on loop L.	bri-19
RMIF l s c DSL BCH x	Disables and removes the link interface for B-channel x for DSL l s c bch; where: x = 1–2	bri-19

RMIF loop PDNI Y	Disables and removes the link interface number Y for PDNI on Loop Y (1-3)	bri-19
SDLC l s c	Get status of specified ISDL C card.	basic-7
SDTR c u	List status of specified DTR/MFR card or unit.	basic-21
SDTR l s c u	List status of specified DTR/MFR card or unit.	basic-21
SDTR <cr>	List status of all disabled DTR/MFR units	basic-21
STAT	Get status of all configured loops in system	basic-1
STAT (appl) card	Get status of MISP card and application. (Option 11) See STAT (appl) loop for possible responses.	bri-18
STAT (card)	Get status of all cards or (specified card). (Option 11) See STAT (loop) and STAT l s c for possible responses. <i>For Option 11C:</i> STAT 0 provides the status of TDS 0 and units 0-15 for card 0.	basic-1
STAT c d	Get status of specified DSL. (Option 11) See STAT l s c d for possible responses.	bri-18
STAT c u	Get status of specified unit. (Option 11) See STAT l s c u command for possible responses. <i>For Option 11C:</i> STAT c u accepts units 0-15 as input for card 0.	basic-1

STAT (appl) loop Get status of MISP loop and application. bri-18

If appl = BRIL, the status of the BRI Line application is output.
If appl = BRIT, the status of the BRI Trunk application is output.

Typical response is:

```
loop = MISP loop for non-Option 11
mm DSBL nn BUSY
MISP lll : ENBL ACTIVATED timestamp
BRIL : ENBL
BRIT : ENBL
```

If the card has been manually disabled, the response is:

```
loop = MISP loop for non-Option 11
DISABLED RESPONDING
MAN DSBL
```

If the card has been disabled by the system, the response is:

```
loop = MISP loop for non-Option 11
DISABLED RESPONDING
SYS DSBL - aaa...a
```

Where aaa...a is the reason as follows:

- a** BOOTLOADING = basecode is being downloaded to the MISP
- b** FATAL ERROR = MISP has a serious problem
- c** OVERLOAD = MISP overload (card inoperable)
- d** RESET THRESHOLD = too many resets (card inoperable)
- e** SELF TESTING = card is performing self-test
- f** SELFTEST FAILED = self-test failed
- g** SELFTEST PASSED = successfully completed self-test
- h** SHARED RAM TEST FAILED = MISP memory problem (card inoperable)
- i** STUCK INTERRUPT = MISP hardware failure (replace card)

With the STAT BRIL or STAT BRIT option, the response is one of the following:

1. APPLICATION ENBL
2. APPLICATION NOT CONFIGURED
3. APPLICATION NOT RESPONDING
4. APPLICATION MAN DSBL (manually disabled)
5. APPLICATION SYS DSBL - aaa..a (system disabled)

Where: aaa...a is the reason as follows:

- a** CLOSED = application is closed by basecode on the card
- b** CLOSED ERR = error in closing the application
- c** CORRUPTED = application is corrupted on the card
- d** DOWNLOADING = application is being downloaded
- e** ENABLED = application is in active state
- f** INACTIVE = application is in inactive state
- g** MNT BUSY = application is in maintenance busy state
- h** WAIT DSBL = application is in process of being disabled
- i** WAIT ENABLE = application is in process of being enabled
- j** WAIT ERASE = application is being erased from the card
- k** WAIT REMOVE = application is being removed from the card

STAT (loop)

Give status of one or all loops. Response is one of the following:

basic-1

1. x BUSY, y DSBL = loop enabled with x channels busy and y channels disabled.
2. UNEQ = loop unequipped.
3. CTYF: l1 l2 = loop specified in STAT command is unable to receive data from loops l1, l2, etc. (i.e., continuity test failed in most recent LD 45 loop test). Probable fault in network card.
4. DSBL: NOT RESPONDING = loop disabled. Network card not responding. Card missing, disabled by switch or faulty.

5. DSBL: RESPONDING = loop disabled but the network card responds. loop may have been disabled due to:
 - a manual request (DISL)
 - b associated Peripheral Signaling card being disabled
 - c overload condition on associated loop

Note 1: Overload conditions are indicated by OVD messages. An attempt to enable a loop which was disabled due to overload may result in a recurrence of the overload condition: the system's service may be impaired for about 2 minutes.

Note 2: For MISP loops see STAT (appl) loop command.

STAT I s	Get idle, busy or disabled status of units on specified shelf. Displays number of units idle, busy, disabled and maintenance busy for the specified shelf.	basic-1
----------	--	---------

STAT I s c	Get status of any specified PE/IPE card. (e.g., digital line, analog, DTR, etc.)	bri-18
------------	--	--------

When getting the status of a card relating to a trunk error (STAT), the term RVSD may appear with the trunk information. RVSD indicates that the software has detected a reversed wired trunk for that unit.

When getting the status of a card where ACD sets are defined, the printout will include MSB LOG OUT, MSB LOG IN, LOG IN, OR LOG OUT, according to the ACD set state.

The output format for either a *S/T-Interface line card (SILC)* or an *U-Interface line card (UILC)* is:

For BRI trunks:

11 = UNIT 11 = DSL/UNIT number on the card =

```
swstate type L2_state L1_state dch_state clk
(mode)
```

For BRI lines:

11 = UNIT 11 = DSL/UNIT number on the card =

```
swstate type L2_state L1_state
```

If you are analyzing a *SILC* or an *UILC* card, Table 15 on page 132 lists and defines output fields and field responses. An output example can be found page 131.

The output format for an *ISDN BRI card* is:

brsc/basic-19

loop = UNIT sw_state DSL misp_state LC_state

With ISDN BRI BRSC cards, the basecode and application status are output.

APPLICATION TIME	MAIN STATE	SUB STATE/ACTIVATION
BASECODE BRI	ENABLED ENABLED	xx/xx/xx x:xx xx/xx/xx x:xx
IDLE 0 MSBY 0	BUSY 0	DISABLED 8
TOTAL DSLs CONFIGURED 8		

If you are analyzing an *ISDN BRI card*, see “STAT l s c d” command for a list of possible states.

Output Example:

```

00 = UNIT 00 = IDLE LINE   ESTA UP
01 = UNIT 01 = IDLE TRNK  ESTA UP           ESTA SREF (TE)
02 = UNIT 02 = IDLE LINE   ESTA DOWN
03 = UNIT 03 = UNEQ
04 = UNIT 04 = UNEQ
05 = UNIT 05 = UNEQ
06 = UNIT 06 = DSBL TRNK DSBL UNEQ RLS      (NT)
07 = UNIT 07 = DSBL TRNK DSBL UNEQ RLS      (TE)

```

Table 15: STAT I s c Field and Response Definitions

Field	Field Definition	Response	Response Definition
swstate	state of DSL/UNIT in software	IDLE	no active call
		BUSY	active with a call
		UNEQ	unequipped
		MBSY	maintenance busy
type	DSL type	LINE	BRI line
		TRNK	BRI trunk
L2_state	Layer 2 state of DSL/UNIT in MISP loadware	UNEQ	unequipped
		IDLE	no active call
		BUSY	active with a call
		MBSY	maintenance busy
		DSBL	disabled
		ESTA	D-channel link is established
		RLSU	D-channel link is released
		TEST	test mode
		RLBT	remote loop back
		APDB	application disabled
		MPDB	associated MISP disabled
		MPNR	associated MISP not responding
		UTSM	unable to send message to MISP
L1_state	Layer 1 state of line card	UNEQ	unequipped
		DOWN	Layer 1 is down
		LCNR	line card not responding
		UP	Layer 1 is up
		UNDN	undefined DSL state
		XPDB	Associated XPEC is disabled
		UTSM	unable to send message to MISP
dch_state	State of D-channel link in software	ESTA	D-channel link is established
		RLSU	D-channel link is released
		TEST-IDLE	test mode idle
		TEST-RLBT	test mode remote loop back
clk	Clock mode	DSBL	disabled
		PREF	primary reference
		SREF	secondary reference
mode	Layer 1 mode of DSL	NT	Network Termination
		TE	Terminal Equipment

STAT I s c d Get status of specified Digital Subscriber Loop (0-7). bri-18

When getting the status of an unit where ACD sets are defined, the printout will *not* include MSB LOG OUT, MSB LOG IN, LOG IN, OR LOG OUT, according to the ACD set state.

If SUPP package 131 is not equipped, Tthe output format is:

```
DSL sw_state misp_state lc_state B1 status
B2 status
```

If SUPP package 131 is equipped, the output format is:

```
DSL type: swstate L2_state L1_state dch_state
clk b1_state b2_state
```

Table 16 defines output fields. Table 17 on page 134 lists and defines possible responses. when SUPP package 131 *is not* equipped. Table 18 on page 135 lists and defines possible responses when SUPP package 131 *is* equipped.

Table 16
STAT I s c d Field Definitions

Field	Definition
sw_state	DSL software state
misp_state	DSL state on the MISP card
lc_state	DSL state on the BRI line card
swstate	State of DSL/UNIT in software
L2_state	Layer 2 state of DSL/UNIT in MISP loadware
L1_state	Layer 1 state of line card
dch_state*	State of D-channel link in software
clk*	Clock mode
b1_state	State of first B-channel
b2_state	State of second B-channel
* these fields are output only for BRI trunks	

Table 17

STAT I s c d Response Definitions: SUPP package 131 is not equipped

Response	Definition
APDB	MISP call application is disabled
BUSY	Call is active
DOWN	Link layer is not established
DSBL	DSL is disabled
ESTA	Link layer is established
IDLE	No active calls
LCNR	Line card is not responding
MBSY	DSL is in maintenance busy mode
MPDB	MISP is disabled
MPNR	MISP not responding or message is lost
NTAN	DSL is not assigned to a MISP
RLS	Link layer is not established
UNDN	DSL is in an undefined state
UNEQ	Unequipped
UP	Link layer is established
UTSM	CPU is unable to send message to MISP or line card
XTDB	Superloop is disabled
XPDB	Controller is disabled

Table 18: STAT I s c d Response Definitions when SUPP package 31 is equipped

Field	Response	Definition
type	LINE	BRI line
	TRNK	BRI trunk
swstate	IDLE	no active call
	BUSY	active with a call
	UNEQ	unequipped
	MBSY	maintenance busy
L2_state	UNEQ	unequipped
	IDLE	no active call
	BUSY	active with a call
	MBSY	maintenance busy
	DSBL	disabled
	ESTA	D-channel link is established
	RLSU	D-channel link is released
	TEST	test mode
	RLBT	remote loop back
	APDB	application disabled
	MPDB	associated MISP disabled
	MPNR	associated MISP not responding
	UTSM	unable to send message to MISP
L1_state	UNEQ	unequipped
	DOWN	Layer 1 is down
	LCNR	line card not responding
	UP	Layer 1 is up
	UNDN	undefined DSL state
	XPDB	associated XPEC is disabled
	UTSM	unable to send message to MISP
dch_state	ESTA	D-channel link is established
	RLSU	D-channel link is released
	TEST-IDLE	test mode idle
	TEST-RLBT	test mode remote loop back
(Part 1 of 2)		

Table 18: STAT I s c d Response Definitions when SUPP package 31 is equipped

Field	Response	Definition
clk	DSBL	disabled
	PREF	primary reference
	SREF	secondary reference
b1_state	UNEQ	unequipped
	BUSY	active with a call
	DSBL	disabled
	MBSY	maintenance busy
	IDLE	no active call
b2_state	UNEQ	unequipped
	BUSY	active with a call
	DSBL	disabled
	MBSY	maintenance busy
	IDLE	no active call
(Part 2 of 2)		

STAT I s c u Get status of specified unit. basic-1

Table 19 on page 137 lists and defines possible responses to STAT I s c u. The response may be normal, abnormal, or caused by an invalid equipment choice.

Table 19
STAT I s c u Responses

Type	Response	Definition
Normal	IDLE	Idle
	MBSY	Maintenance busy
	DSBL	Disabled
	DSBL	Virtual terminal on Meridian 1 / Meridian SL-1 disabled by Server
	BUSY	In use by call processing
	BUSY BARRED	Barring is applied to trunk with BARA Class of Service
	UNEQ	Terminal not defined in software
	L500	Line is 500/2500 type
	MBCS	Maintenance set
	BCS	Normal SL-1 telephone
	TRK	Trunk
	ATTN	Attendant console
	DTR	Digitone Receiver
	PWR	Console power unit
Abnormal	CARD x DSBL (OVD)	Card x disabled due to overload
	DND xxx xxx	Do Not Disturb feature is active
	SHELF DSBL (OVD)	Shelf disabled due to overload
	SIG FAULT	Outgoing signal circuitry fault detected on PS card under examination.
	WARNING: CRPTR NOT IN RANGE	TN's data is corrupted. Check BUG messages relating to the TN.
Responses caused by invalid equipment choice:		
	EXT DSBL	Extender disabled
	LOOP NOT TERM	Loop is not a terminal loop
	LOOP UNEQ	Loop is unequipped
	SHELF UNEQ	Shelf is unequipped
	SHELF UNEQ W/PBX CARDS	No 500 cards on shelf
	CARD UNEQ	Card is unequipped
	CARD NOT PBX	Card is not a PBX card
	UNIT UNEQ FOR MW	Unequipped for Message Waiting
	PER UNEQ	PS card is unequipped
	UNIT UNEQ	Unit is unequipped

STAT NCAL <c DSL#>

qsig gf-22

List all current call-independent connections on a given BRIT DSL. (Option 11)

The response format is as follows:

- NCALL CONN ID: a number in the range of 1-9999 that identifies the call independent connection on a given DSL
- CREF: call reference number in HEX identifying independent connection
- STATE: current state of all call-independent connections (IDLE, CONN_REQ, CONN_EST)
- TIME: year month day hour:minute:second (the time when call independent connection request is made)
- APPL: applications using the call-independent connection (e.g., NACD, NMS,...)
- ORIG: originator
- DEST: destination

Note that the command format for an Option 11C is:

STAT NCAL <c 0 0 DSL#>

STAT NCAL <l s c DSL#>

qsig gf-22

List all current call-independent connections on a given BRIT DSL.

The response format is as follows:

- NCALL CONN ID: a number in the range of 1-9999 that identifies the call independent connection on a given DSL
- CREF: call reference number in HEX identifying independent connection
- STATE: current state of all call-independent connections (IDLE, CONN_REQ, CONN_EST)
- TIME: year month day hour:minute:second (the time when call independent connection request is made)
- APPL: applications using the call-independent connection (e.g., NACD, NMS,...)
- ORIG: originator
- DEST: destination

To enter this command, QsigGF package 305 is required.

STAT NCAL <l s c DSL#> <conn_ID>

qsig gf-22

List information pertaining to a specific call-independent connection (as defined by its connection ID)

The response format is as follows:

- NCALL CONN ID: a number in the range of 1-9999 that identifies the call independent connection on a given DSL
- CREF: call reference number in HEX identifying independent connection
- STATE: current state of all call-independent connections (IDLE, CONN_REQ, CONN_EST)
- TIME: year month day hour:minute:second (the time when call independent connection request is made)
- APPL: applications using the call-independent connection (e.g., NACD, NMS,...)
- ORIG: originator
- DEST: destination

To enter this command, QsigGF package 305 is required.

STAT NWK loop

basic-1

Check status of network card with specified loop, where loop is the even or odd numbered loop on the network card.

STAT PER x

Get status of PS card x.

basic-1

If the PS card is disabled, the response is changed from DSBL to either:

1. DSBL: NOT RESPONDING = PS card x is either missing, faulty or disabled via the faceplate switch.
 - If there is a fault in the extender pair for the network shelf, the status of the PS card will also be:
DSBL: NOT RESPONDING.
2. DSBL: RESPONDING = The PS card is disabled and responding to the CPU. The PS may have been disabled by manual request (DSPS) or the associated extender pair may have been manually disabled.

If neither of these conditions exists, the card may have been disabled because of an overload condition on the associated shelf. Check for OVD messages appearing in previous TTY output.

An attempt to enable a PS card which was disabled because of an overload may result in a recurrence of the overload condition: the system's service may be impaired for approximately 2 minutes.

STAT sl	Get current status of superloop and separate carriers on that superloop, based on data previously sent by the Carrier Interface F/W (LCIM).	rem_ipe-21
	For each carrier, the following fields will be displayed: S/W State, SPARE Status, NND Status, TSA (Time Slot Availability) and CALS. TTSA = Number of Traffic Timeslots currently available for voice and data calls out of a possible: 21 for T-1 and 27 for T-E. SPARE Status indicates whether the carrier is spared and which carrier it is spared in. NND Status indicates whether new data calls are disallowed on the timeslots being transmitted by the carrier.	
STIF L PDL2 I s c	Displays link status for SAPI 16 interface of BRSC I s c for MPH on loop L.	bri-19
STIF L PDL2 L1	Displays the link status for SAPI 16 interface of BRIL L1 for MPH on loop L.	bri-19
STIF I PDNI y	Displays the link status for interface Y for PDNI. Where: Loop Y = 1-3	bri-19
STIF I s c DSL DCH x	Displays the link status for B-channel X for the DSL I s c D. Where: BCH stands for B-channel and X = 1-2.	bri-19
SUPL (loop)	Print data for all or specified superloop(s).	xpe-15
TRK c u	Seize specified trunk for outpulsing. (Option 11)	basic-1

TRK I s c u	Seize specified trunk for outpulsing. Command is valid at a maintenance telephone only. The specified trunk is connected to the maintenance telephone and a test call may be performed on the trunk. When the test call is completed, access sequence SPRE 91 must be redialed to use the maintenance telephone to input more commands.	basic-1
XNTT loop	Do self-test of Network card for specified superloop. The Network card must be disabled before the self-test.	xpe-15
XPCT x	Do self-test on Controller x. The NT8D01 Controller must be disabled before the self-test.	xpe-15
XPEC (x)	Print data for all or specified Controller(s).	xpe-15
